

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973611

Luminaire Tested: FLR2-22-35-L840-CP080

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973611
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-22-35-L840-CP080
Description: SHAPER SENSE CIRCLE

Light Source:
Ballast/Driver: -

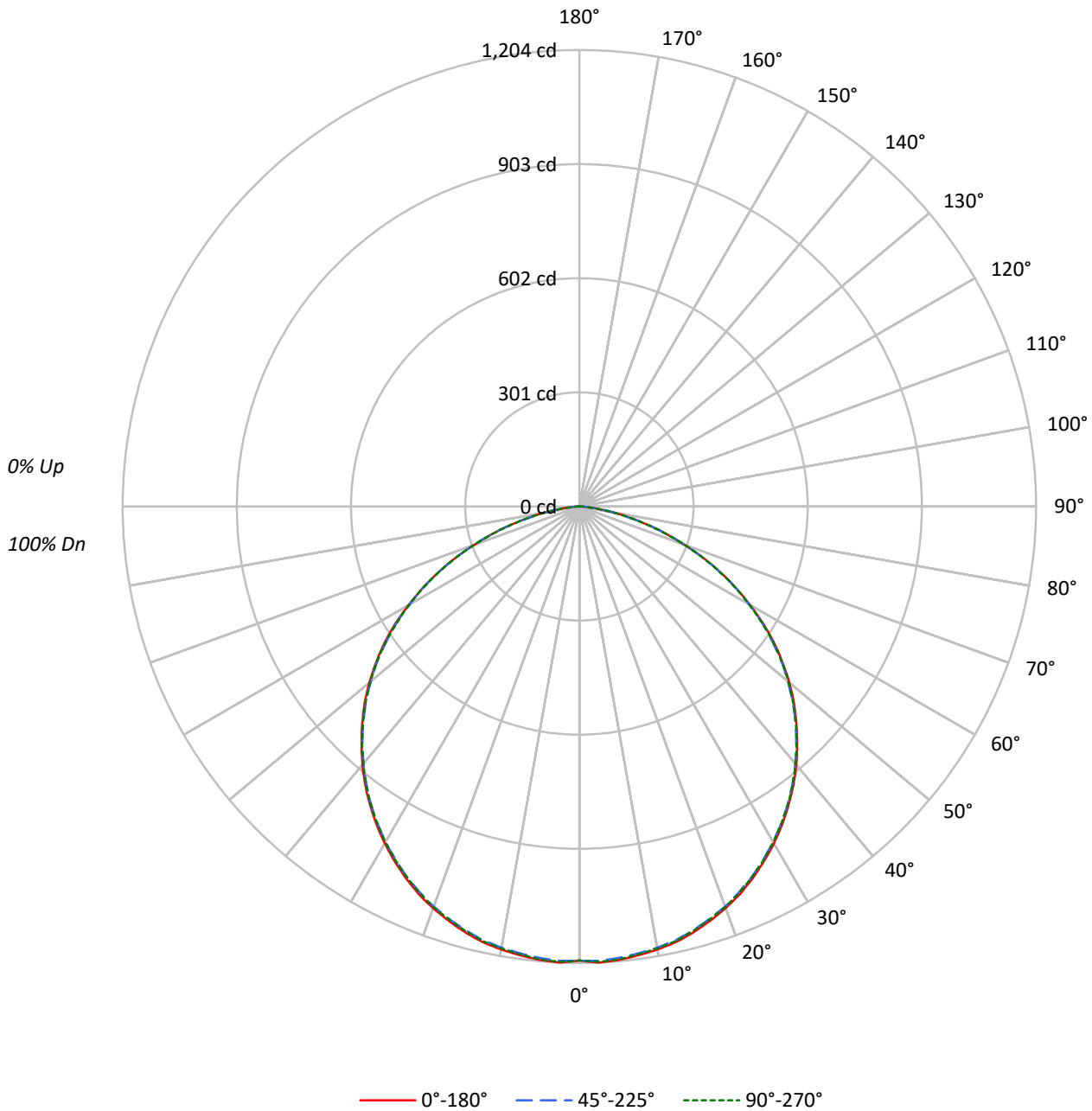
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.5 lumens
Efficiency: N/A
Efficacy: 120.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.27 / 1.38
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 27.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100															
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85					85															
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71					71															
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60					60															
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51					51															
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44					44															
6	71	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39					39															
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34					34															
8	61	47	39	33	59	47	39	33	45	38	33	44	37	32	43	37	32	30					30															
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27					27															
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25					25															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3223	3223	3223
5°	3243	3229	3239
10°	3243	3228	3234
15°	3240	3226	3230
20°	3229	3216	3220
25°	3211	3198	3200
30°	3188	3175	3177
35°	3160	3147	3150
40°	3126	3111	3113
45°	3080	3066	3072
50°	3026	3004	3010
55°	2940	2915	2926
60°	2795	2783	2783
65°	2610	2605	2595
70°	2311	2323	2316
75°	1946	1931	1915
80°	1399	1376	1364
85°	732	732	707

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 3080 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	3.4
10°-20°	326.2	9.7
20°-30°	495.7	14.8
30°-40°	599.1	17.9
40°-50°	621.8	18.6
50°-60°	555.9	16.6
60°-70°	404.2	12.1
70°-80°	198.8	5.9
80°-90°	34.5	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	935.2	27.9
0°-40°	1534.3	45.8
0°-60°	2712.1	81.0
0°-90°	3349.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3349.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1198	1198	1198	1198	1198	
5°	1201	1187	1196	1191	1199	114
15°	1163	1150	1158	1155	1159	328
25°	1082	1070	1077	1075	1078	499
35°	962	955	958	959	959	602
45°	809	806	806	807	807	624
55°	627	623	621	623	624	559
65°	410	411	409	409	408	404
75°	187	189	186	186	184	199
85°	24	24	24	24	23	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1197.8	1197.8	1197.8	1197.8	1197.8
2.5°	1204.4	1190.4	1199.2	1194.1	1202.2
5°	1200.7	1186.7	1195.5	1191.1	1199.2
7.5°	1194.1	1180.0	1188.9	1184.4	1191.1
10°	1186.7	1171.9	1181.5	1177.0	1183.7
12.5°	1177.0	1163.0	1171.9	1168.2	1174.1
15°	1163.0	1149.7	1157.8	1154.8	1159.3
17.5°	1146.0	1132.6	1140.8	1138.6	1142.3
20°	1127.5	1114.9	1123.0	1120.8	1124.5
22.5°	1106.8	1093.4	1100.8	1099.4	1102.3
25°	1081.6	1069.8	1077.2	1074.9	1077.9
27.5°	1055.0	1043.9	1049.8	1049.8	1051.3
30°	1026.1	1015.8	1021.7	1021.7	1022.4
32.5°	995.0	986.9	990.6	991.3	991.3
35°	961.8	955.1	958.1	958.8	958.8
37.5°	927.0	920.3	922.5	924.0	924.0
40°	890.0	884.1	885.6	887.0	886.3
42.5°	850.0	845.6	846.3	847.8	847.8
45°	809.4	805.7	805.7	807.1	807.1
47.5°	767.9	764.2	762.7	764.2	764.2
50°	722.8	719.1	717.6	719.1	719.1
52.5°	675.4	671.7	671.7	671.7	672.5
55°	626.6	622.9	621.4	622.9	623.7
57.5°	574.8	573.4	571.1	571.9	569.7
60°	519.3	519.3	517.1	518.6	517.1
62.5°	465.3	466.8	464.6	464.6	463.1
65°	409.9	411.3	409.1	409.1	407.6
67.5°	352.9	355.1	352.1	352.1	350.7
70°	293.7	298.1	295.2	295.9	294.4
72.5°	240.4	242.7	239.7	239.7	238.2
75°	187.2	188.7	185.7	186.4	184.2
77.5°	134.6	136.9	133.9	134.6	133.9
80°	90.3	91.0	88.8	89.5	88.0
82.5°	52.5	53.3	52.5	51.8	51.0
85°	23.7	24.4	23.7	23.7	22.9
87.5°	5.9	5.9	5.9	5.9	5.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)